

Goa, 13th April, 1967 (Chaitra 23, 1889)

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# GOVERNMENT GAZETTE

## BOLETIM OFICIAL

GOVERNMENT OF GOA, DAMAN  
AND DIU

Secretariat

### ORDER

LD-EST-7-67

Whereas it has been noticed that the existing system of computing fees for the solemnization of marriages is complicated and time-consuming, resulting in mis-calculation and loss to the public and to the revenue;

And whereas it is considered expedient to simplify the system of computation.

Now, therefore, in exercise of the powers vested in me by clause 2 of the Goa, Daman and Diu Removal of Difficulties Order 1962, I, Shri K. R. Damle, Lieutenant Governor of Goa, Daman and Diu, hereby direct that notwithstanding anything to the contrary contained in the table of fees appended to Order no. 1847, dated the 6th November, 1958, as amended from time to time, and any other rules and orders in force prior to the 20th December, 1961, with effect from the 15th April, 1967, the following fees only shall be charged in respect of marriages:—

1. For the registration of a marriage, transcription of a registration of marriage done elsewhere or organising the proceedings of catholic marriage ..... Rs. 11/-
2. For the solemnization of a marriage outside the office of the Registrar, when the conveyance is provided by the party, an extra fee of ..... Rs. 5/-
3. For the solemnization of a marriage outside the normal working hours, an extra fee of ..... Rs. 3/-

K. R. Damle

Lieutenant Governor

Panaji, 7th April, 1967.

Finance Department

Corrigendum

ABS/EQT/5163/67

In the annexure below Government Memo No. GAD-EST-7264 dated 8th February, 1966 published in Government Gazette Series I No. 46 dated 11th February, 1966 (Special issue) under the Heading «Navegacao da India Department» the equation of the under mentioned post should be corrected as indicated below:—

Navegacao da India Department

- 6—Ajudante do serralheiro  
(Assistant to the ordinary Mechanic). } Fitter mate Rs. 80-1-85-2-95-  
7—Aprendiz do Serralheiro } -EB-5-110.

V. S. Srinivasagopalan, Dy. Secretary (Finance).  
Panaji, 5th April, 1967.

Law and Judiciary Department

### Notification

LD/N/10/67

The following notification issued by the Government of India under section 6 of the Goa, Daman and Diu (Administration) Act, 1962 (1 of 1962) is hereby published for general information.

Kant Desai

Under Secretary

Panjim, 4th April, 1967.

New Delhi-11, the 16th March, 1967

### Notification

G. S. R. — In exercise of the powers conferred by section 6 of the Goa, Daman and Diu (Administration) Act, 1962 (1 of 1962), the Central Government

hereby extends to the Union territory of Goa, Daman and Diu the following Acts, namely:—

1. The Requisitioning and Acquisition of Immovable Property Act, 1952 (30 of 1952).
2. The Indian Carriage by Air Act, 1934 (20 of 1934).

[F. No. 7/10/65-93]

P. N. VASUDEVAN

Deputy Secretary to the Government of India.

Industries and Labour Department

Industries and Power Department

### Notification

In pursuance of Rule 45 of the Indian Electricity Rules, 1956 the Administrator of Goa, Daman and Diu hereby makes the following rules and conditions for the grant of competency certificates to Electrical Supervisors, Wiremen's Certificates and Licences to Electrical Contractors for the Union Territory of Goa, Daman and Diu with effect from the date of its publication in the Government Gazette.

#### Part I

#### Licensing Board

##### 1. Appointment of a Licensing Board:

For carrying out the purposes of these Rules, are Electrical Contractors', Supervisors' and Wiremen's Licensing Board (hereafter referred to as "the Licensing Board") shall be appointed by the Government of Goa, Daman and Diu.

2. Constitution of the Licensing Board. — The Licensing Board shall consist of:

- (a) The Electrical Inspector to Government.
- (b) The Chief Electrical Engineer, Government of Goa, Daman and Diu.
- (c) A Technical Nominee of the Director of Education in Panjim.
- (d) A Nominee of the Licensed Electrical Contractors' Association (if any).
- (e) A Nominee of the Chief Inspector of Mines, Government of India.
- (f) The Assistant Electrical Inspector, Panjim.

The Electrical Inspector to Government shall be the Ex-officio president of the Licensing Board and the Asst. Electrical Inspector shall be the ex-officio Secretary. The nominees of the Licensed Electrical Contractors' Association shall be a qualified person in Electrical Engineering with a minimum qualification of a Diploma or with any other equivalent qualification.

3. Functions of the Licensing Board. — The functions of the Licensing Board shall be:

- (a) To grant licenses to Electrical Contractors.
- (b) To conduct Examinations for Electrical Supervisors and Wiremen.
- (c) To grant Certificates of Competency and Permits to Electrical Supervisors and Permits to Wiremen.

(d) To enquire into allegations of incompetency, negligence, breach of the Indian Electricity Rules, 1956 or malpractice on the part of any Electrical Contractor, Supervisor and Wireman, holding a licence, competency certificate or permits as the case may be or of breach of any condition of such licences, certificates or permits and to the such action as may be considered necessary.

(e) To do such other work as the Government may direct from time to time in connection with the enforcement of Rule 45 of the Indian Electricity Rules, 1956.

Note: Any decision given by the Licensing Board in the execution of its functions shall be final.

4. Sub-Committees. — The Licensing Board shall have power to appoint sub-committees and delegate such of its powers to these sub-committees and to the president, as may be necessary.

5. Quorum. — The President or the Secretary together with two other members shall form a Quorum.

6. Meetings of the Licensing Board. — The Licensing Board shall meet once in six months and at such other time as may in the opinion of the President be necessary. At least 15 days clear notice shall be given to each member.

7. Chairman of the Meeting. — The President or in his absence one of the members present as may be elected at the Meeting shall be the Chairman of the Meeting. The Chairman shall have a casting vote in case there is tie on any time at a Meeting.

8. Duties of the President. — The Duties of the President shall be:

- (a) To preside all meetings of the Licensing Board unless prevented unavoidably.
- (b) To grant licenses to Electrical Contractors, Certificates & Permits to Electrical Supervisors, and permits to Wiremen on behalf of the Licensing Board.
- (c) To exercise such powers and to carry out such functions as may be delegated by the Licensing Board from time to time.

9. Duties of the Secretary. — The duties of the Secretary shall be:—

- (a) To scrutinise all applications from Electrical Contractors for issue or renewal of licenses and submit them to the president and carry on correspondence in connection therewith.
- (b) To scrutinize applications for admission to the Examinations for Supervisors and Wiremen and carry on correspondence in connection therewith.
- (c) To countersign licenses to Electrical Contractors and certificates and permits to Supervisors and permits to Wiremen.
- (d) To issue Notifications regarding the issue, suspension or cancellation of all licences, certificates and permits.
- (e) To discharge such other functions as may be authorised by the Licensing Board.

## (Part II)

## Licenses to Electrical Contractors

**10. Grant of Licenses to Electrical Contractors.** — An Electrical Contractor's Licence shall be granted only to a person or a firm who: —

- (a) has reasonable stocks of all wiring and necessary materials into him, as well as the necessary instruments and equipments such as Meggar, Bell-Battery, Voltmeter and Ammeter for carrying out the tests required under the Indian Electricity Rules, 1956.
- (b) himself holds a certificate of competency and permit and personally supervises all works undertaken by him or has in his sole employ a full time electrical Supervisor holding a certificate of competency and permit granted by the Licensing Board, for the direct supervision of all works undertaken by the contractor and
- (c) fulfils such conditions regarding his financial stability as the Licensing Board may prescribe.

Provided that the Licensing Board may refuse to grant such license to any person (or firm) who (or which) in the opinion of the Licensing Board is not fit to hold such license or has been found to have resorted to malpractice in the business of an Electrical Contractor.

Provided further that the Licensing Board may at its discretion relax or modify the provisions of Rule 10 (G) in the cases of very experienced Contractors.

**11. Renewal of Contractor's Licence.** — Every licence granted under these rules shall be renewed at the calendar year, failure to do so shall render such licence liable to cancellation and full initial fee shall be charged for the issue of a new licence.

**12. Applications for licences and renewal of licences:—**

- (a) All applications for issue of fresh licence shall be in the prescribed form (Form 'B') as appended and shall reach the Secretary, Licensing Board, Panjim, before the 15th November of the year, accompanied by a chalan from a Government Treasury or State Bank of India in support of having paid the initial licensing fee of Rs. 100/-.
- (b) Applications for a fresh license received after the due date stated above, will not be considered, unless there are special circumstances which in the opinion of the President, Licensing Board justify an exception being made.
- (c) All applications for renewal of a licence shall be in the prescribed form (Form 'C') appended and shall reach the Secretary, Licensing Board before 15th November of the year accompanied by a chalan from a Government Treasury or State Bank of India in support of having paid the renewal fee of Rs. 25/-.
- (d) Applications for renewal reaching the Secretary, Licensing Board after 15th November shall be accompanied by a further

chalan in support of having paid a penalty fee of Rs. 25/-. Applications for renewal not accompanied by such penalty fee chalan or applications for renewal received after the end of December of the year shall be rejected and the licence automatically ceases to be valid.

**13. Area of Practice.** — An electrical Contractor's licence issued under these rules and conditions shall hold good throughout the area of Goa, Daman and Diu.

**14. Employment of Wiremen.** — Every licensed electrical Contractor shall have in his sole employment at least one wireman and shall increase the same if his business exceeds more than 100 installations completed during a period of one year. Such wiremen shall hold a current permit issued by the Licensing Board. Failure to employ sufficient wiremen or to give prompt notice of the leaving of their services, shall render a Contractor's licence to suspension and/or cancellation in the same manner as stated in Rule 15.

**15. Cancellation of Contractor's licence.** — If the holder of a Supervisor's Competency Certificate and permit on the strength of which a licence has been granted to an electrical Contractor, leaves the service of the Contractor, such Contractor's licence shall be deemed to have been suspended. Should such Contractor fail to employ a person holding a Supervisor's Competency certificate and permit and intimate the same to the Secretary, Licensing Board within one month from the date on which the previous Supervisor has left his service, such Contractor's licence shall be cancelled. Provided that the Secretary of the Licensing Board may with the approval of the President extend this period to a maximum of two months in exceptional cases.

**16. Special Wiring permission.** — (a) Special wiring permission valid for one year may be granted by the Secretary, Licensing Board, at his discretion to the authorities of large concerns when they desire to get their own installations wired up under the supervision of a technically qualified person in their employ who possess qualifications and experience equivalent to those necessary for an electrical Supervisor as provided in these rules. Such requests for special permission shall be accompanied by a fee of Rs. 5/-.

(b) Special permission may be given to electrical Engineers with a University degree or diploma or equivalent qualifications for wiring of their own installations under their direct supervision on payment of a special Permit fee of Rs. 5/-.

**17. Notice to be given.** — As soon as an electrical Supervisor or a Wireman leaves the service of a Contractor, both parties shall intimate the fact to the Secretary, Licensing Board, immediately. Failure to do so on the part of the Supervisor or Wireman and also by the Contractor will render their permit and licence liable for suspension and or cancellation.

**18. Contractors employed as Supervisors.** — If the holder of an electrical Supervisor's permit, to whom a Contractor's licence has been granted accepts employment in any other firm the Contractor's licence granted to him shall be automatically cancelled from the date of such employment.

**19. General.** — (1) The entire staff of every licensed Electrical Contractor shall consist of bona fide certified full time employees, provided that a contractor may engage apprentices for training purposes in which case the total number of such apprentices at any time should not exceed the total of his recognized wiring staff (excluding labourers) and provided further that the Contractor shall not permit such apprentices to carry out any electrical installation work except under the direct supervision of a person holding a wireman's permit.

19.(1)(a) Every contractor shall maintain an up-to-date register in Form 'N' of all supervisors, wiremen and apprentices and it shall be open to inspection at any time by the Electric Inspector or his representative, to whom a copy of such register duly signed by the contractor shall be supplied.

(2) Every contract for electrical installation work between a consumer and a contractor shall be in writing and the latter shall be responsible for the quality of Workmanship and the materials used.

(3) A duplicate of licence issued to an Electrical Contractor under these Rules may be issued on payment of Rs. 5/- and on production of satisfactory proof of the loss of the original.

(4) Licences are not transferable i. e. a Contractor cannot at any time, sell or transfer his licence to another person. But in case of death of proprietor, the license may be transferred to his successor, if he satisfies all conditions.

(5) A contractor, if he so desires, is permitted to appoint a representative under intimation to the Secretary, Licensing Board, authorising the latter to look after the business on his behalf. The representative of a qualified Contractor shall also be qualified, otherwise he shall be assisted by an Electrical Supervisor who holds the Certificate of Competency and permit. The Contractor will be held responsible for all acts done by his representative.

(6) If the Electrical Supervisor or the Contractor himself (in case he is exempted from maintaining an Electrical Supervisor) is not present when a test of the installation wired by him has been jointly fixed by him, and the Supplier, the Contractor's licence is liable to be suspended.

(7) Any dispute arising between the Contractor and the party where a contract has been executed in writing shall be referred to the Secretary, Licensing Board and the decision of the Secretary shall be binding on both the contesting parties. If the nature of the dispute (in the opinion of the Secretary) is wired, no fee shall be leviable and in all other cases a fee of Rs. 10/- shall be charged and the amount shall be paid by the party when the Secretary so denotes.

(8) Every work undertaken by a Contractor should invariably be completed within the stipulated time mentioned in the agreement, unless otherwise prevented from unavoidable circumstances for which satisfactory proof must be produced.

## **20. Misconduct of licensed Wiremen, Supervisors and Contractors:—**

- (a) Report of negligence: When in the opinion of a person, company a local body licensed under Part II of the Indian Electricity Act

1910 or of a sanctioned under Part III of the Indian Electricity Act 1910 or of one officer of the Electrical Inspector's office, or of a person from whom any electrical installation work is being or has been carried out by a contractor licensed under these regulations, the work is not in accordance with the Indian Electricity Rules, 1956 and such licence sanctioned, officer of the Electrical Inspector's office or other person desiring to bring the facts to the notice of the Licensing Board, he shall make a report in writing to the President.

- (b) Amount to be deposited into the report:— A report made to the President under clause (a) above by a person of the last category shall be accompanied by a deposit of Rs. 10/- or such large amount as the Licensing Board may fix by special order in each case. If in the opinion of the licensing Board the charge contained in the report is not substantiated, the licensing Board may direct that the deposit shall be forfeited.

- (c) Cancellation or Suspension of Contractor's license and/or Supervisor's or Wireman's Certificate & Permit: If any person or firm holding an electrical contractor's licence and/or Supervisor's or Wireman's Certificate of Competency or permit is found by the Licensing Board to be guilty of negligence, incompetence or a breach of these rules or of the conditions of his licence, the president, Licensing Board may suspend such licence or certificate or permit forthwith for a period of 3 months or more. If in the opinion of the Licensing Board more severe disciplinary action is necessary, they may cancel the licence certificate or certificate as the case may be.

**21. Electric licences.** — No Electrical Installation work shall be carried out by a person, company or any other body licensed under Part II of the Indian Electricity Act 1910 or a sanctioner under Part III of the Indian Electricity Act 1910 on a consumer's previous beyond the point of commencement of supply.

**22. Decisions of the Licensing Board to be final.** — The decisions of the Licensing Board shall be final in all matters of issue of permits, competency certificates or Contractor's licenses, of their renewals, suspension and cancellation and on complaints of malpractice and infringement of these Rules.

### **Part III**

#### **Certificates of Competency and permits to Electrical Supervisors**

**23. Grant of Certificates.** — Certificates of Competency (in Form 'E') will be granted only to persons who have qualified themselves either by passing the prescribed or by possessing an exempting qualification in accordance with the following rules:

#### **24. Rules and Syllabus for Electrical Supervisor's Examination:**

- (1) Examination for issue of «Certificates of Competency and Permits for Electrical



Supervisors» will be held at Panjim, once a year, by the Board of Examiners appointed from time to time, by the Licensing Board on their behalf. The exact place and date will be notified by the Secretary, Licensing Board in the official Gazette.

- (2) This examination is intended mainly for such persons who after qualifying from it will be useful as Electrical Supervisors to unqualified Electrical Contractors in the Territory of Goa, Daman and Diu. Electrical Contractors and their representatives who may appear for the examination and if successful will be considered qualified and exempt from maintaining supervisors.
- (3) Candidates for this examination shall possess at least three years recognised practical experience in electrical wiring and shall be capable of answering a written paper in English, Portuguese or Konkani.

**25. Exemption from Examination:—**

- (1) Graduates, Diploma holders and licenciates in Electrical or Mechanical Engineers from any recognised Tech. college or Institute are exempt from appearing for this examination and such exemption will be issued by the Licensing Board on payment of the exemption fee.
- (2) The Licensing Board may grant exemption to any candidate in exceptional cases, if, in its opinion the candidate is sufficiently competent and on payment of exemption fee.

**26. Applications, etc, for the Examination.**— Every candidate for this examination shall make an application in Form 'D' appended and forward it to the Secretary, Licensing Board not less than six weeks before the date fixed for the examination, enclosing along with it:—

- (a) a true copy (attested by a gazetted officer) of his educational testimonials, if any.
- (b) testimonials from his present and past employees regarding conduct and practical experience in Form 'K' appended or in case he is himself a contractor, a declaration in Form L appended.
- (c) Government Treasury chalan in support of having paid the examination fee of Rs. 30/- under Budget Head «XIII Other Taxes and Duties — (B) Electricity Duties — Other Receipts».
- (d) 3 copies of latest photograph (size 2"×2½") with name and signature on back.

**27.** The examination fee paid by a candidate where application for the examination has been accepted shall not be refunded on any account.

**28.** No candidate shall be admitted to the examinations, if in the opinion of the Licensing Board, his previous experience or his testimonials are unsatisfactory.

**29.** Candidates for this examination will be examined in accordance with the syllabus in Annexure 'C'. The examination will be conducted in English, Portuguese and in Konkani.

**Part IV**

**Certificate of Competency and Permits to Electrical Supervisors for working in Mines**

**30. Grant of certificate of competency and permits.**— (1) Certificate of competency shall be granted in form 'E' appended to these rules, to persons who have either passed the examination prescribed in these rules or have been exempted in accordance with these rules from passing the same.

(2) Permits in form 'G' shall be granted to persons who have been granted certificate in competency under Sub-rule (1).

**31. Rules and Syllabus: for Mining Electrical Supervisors Examination.**— (1) Examination for grant of Certificate of Competency and Permit to Electrical Supervisors for working in Mining installations will be held once a year at such places and on such dates as may be notified in the Official Gazette by the Secretary, Licensing Board.

(2) Candidates taking this Examination should:

- (a) have attained 23 years of age on the date of examination and
- (b) possess a certificate of practical training issued by State or Central Government undertakings sponsored concerns of at least five years of Electrical Engineering of which at least 2 years should be in Mining installations and should be capable of answering written papers in English, Portuguese or Konkani.

(3) Candidates for this examination should answer written papers I and III of the syllabus specified in Annexure 3 and should also pass in the oral and practical tests for a pass in the examination, candidates must secure the minimum marks specified in Annexure C.

(4) Candidates who have passed in papers I and II and desire to qualify in wiring Electrical installations, shall not be required to answer written paper I.

**32. Exemptions.**— (1) Graduates in Electrical Engineering and holders in Diploma recognised as equivalent to degree in Electrical Engineering, having practical experience of at least 2 years in Mining installations shall be exempted from appearing for this examination but shall be subject to oral test. Holders of Diploma (other than the recognised as equivalent to degree) in Electrical Engineering of recognised institution shall be exempted from appearing for this examination if they have their practical experience of five years of which at least 3 years should be in Mining installations.

(2) The Licensing Board may grant exemption in exceptional cases to any person who is neither a Graduate nor a Diploma holder but holding a responsible supervisory position in the profession with a minimum of 12 years of satisfactory experience of Electrical Installation in Mines from passing the examination under these rules but such person shall be subject to a practical test to assess his eligibility for the certificate of competency and permit as Electrical Supervisor in mining installations.

**33. Applications etc, for the Examination.**— Application for admission to the examination for supervisors in Electrical Installations in Mines shall be

made in Form 'D' appended to these rules to the Secretary, Licensing Board so as to reach him not less than six weeks before the date fixed enclosing along with it.

(a) A Govt. Treasury chalan in support of having paid the examination fee of Rs. 30/- under the Budget Head specified in rule 26 (C).

34. The examination fee paid by a candidate where applications for the examination has been accepted, shall not be refunded on any account but shall be refunded if his application for admission into the examinations has not been accepted.

#### Part V

#### Permits for Wiremen — Rules and Syllabus of Examination

35. Examination for issue of Wiremen's Permit (in Form 'D') will be held at Panjim once a year by the Board of Examiners appointed by the Licensing Board from time to time in this behalf. The exact place and date will be notified by the Secretary, Licensing Board in the Official Gazette.

36. This examination is intended mainly for such persons, who after qualifying from it, will be useful as wiremen to Electrical Contractors.

37. Candidates for this examination shall be persons who have worked on electric and electric installations works for at least one year under a Licensed Electrical Contractor in the Territory of Goa, Daman and Diu and possess any other electrical training or practical experience which is regarded as satisfactory by the Licensing Board.

38. **Exemption from Examination.** — The Licensing Board may grant exemption in exceptional cases to a candidate if in its opinion, the candidate is sufficiently competent and on payment of the exemption fee.

39. **Application etc. for the Examination.** — Every candidate for this examination shall make an application in Form 'D' appended and shall forward the same to the Secretary, Licensing Board so as to reach him on a date not less than six weeks from the date fixed for the examination, enclosing therein.

- (i) Testimonials from Employees, regarding good conduct and practical experience in Form 'K'.
- (ii) Govt. Treasury chalan in support of having paid the examination fee of Rs. 10/- under Budget Head «XIII Other Taxes and Duties» — «B» Electricity Duties — «Other Receipts» and
- (iii) Three copies of latest photograph (size 2" × 2½") with his name and signature on back.

40. Examination fee once paid and if the Candidates application for examination is admitted, the fee will not be refunded but if the application is registered, the fee is liable for refund.

41. No Candidates shall be admitted to the Examination if in the opinion of the Licensing Board, his previous experience is unsatisfactory.

42. The examination will be both oral and practical and of such a nature as test the practical knowledge

of the candidate and to ascertain his competency thereof. The syllabus shall be as given in Annexure 'D'.

43. Every candidate who passes the Examinations for Electrical Supervisors, Electrical Supervisors for works in mines or who is exempted from appearing for such examinations shall be granted certificates of competency in Forms 'E' and 'F' as the case may be and permits in Form 'G'.

44. Every Candidate who passes the Examination for Wiremen shall be granted a permit in Form 'H'.

45. All permits granted to Electrical Supervisors of both category and Wiremen shall be renewed annually. Applications for renewal, shall be made in Form 'M' enclosing therein Treasury chalan for having paid a sum of Rs. 5 or Rs. 2 respectively under Budget Head "XIII. Other Taxes and Duties — "B" Electricity Duties — Other Receipts". Penalty fee shall be charged for late renewals.

46. Every certificate or permit granted to Electrical Supervisors of both category or Wiremen under these rules shall be liable to be suspended or cancelled if the holder thereof is found guilty of any malpractice.

47. Duplicate of a certificate or permit may be issued by the Secretary, Licensing Board on payment of a fee of Rs. 5/- in the case of Supervisors and Rs. 2/- in the case of Wiremen on production of satisfactory proof as to its loss together with the latest copy of the candidate's photograph (size 2" × 2½") in duplicate.

#### Part VI

#### Miscellaneous

48. **Remuneration for Examiners.** — Examiners, Invigilators, assistants and ministerial staff nominated by the Licensing Board shall be entitled to receive such fees as Government may from time to time approve.

49. **Fee payable at the Govt. Treasury.** — All fee for licences, permits, examinations and for any others under these rules shall be paid at the Govt. Treasury under Major Head XIII Other Taxes and Duties — Minor Head "B" Electricity Duties — Other Receipts".

50. **Subsidiary Rules.** — The Licensing Board may recommend to Government the formulation of additional Rules not inconsistent with the Indian Electricity Act 1910 and the Rules made thereunder if such additional Rules are found necessary.

By order and in the name of the Administrator of Goa, Daman and Diu.

B. R. Basu, Secretary, Industries and Labour.

Panaji, 7th March, 1967.

#### ANNEXURE A

The following fees shall be levied under these Rules for:

				Rs.	Ps.
1. Electrical Contractor's Licence:					
(a) Initial fee .....	As per Rule	12 (a)		100	00
(b) Annual renewal fee ....	— Do —	12 (c)		25	00
(c) Penalty for late renewal	— Do —	12 (d)		25	00
(d) Issue of duplicate Licence .....	— Do —	19 (3)		5	00

## 2. Electrical Supervisor's Certificate of Competency and Permit for both Categories:

- (a) Initial fee for admission to examination and Issue of certificate of competency and permit, as per rule 26(C) ..... 30:00
- (b) Annual renewal fee, as per Rule 45 ..... 5:00
- (c) Issue of duplicate certificate or permit or both as per Rule 4 ..... 5:00
- (d) Issue of Exemption Certificate and Permit as per rule 25 ..... 20:00
- (e) Penalty for late renewal as per Rule 45 ... 5:00

## 3. Wiremen's permit:

- (a) Initial fee for admission to examination and Issue of Permit as per Rule 39(ii) ..... 10:00
- (b) Annual renewal fee as per Rule 45 ..... 2:00
- (c) Issue of duplicate permit as per Rule 47 ... 2:00
- (d) Penalty for late renewal as per Rule 45 ... 2:00
- (e) Issue of exemption permit as per Rule 38 ... 5:00

## 4. Name, home address and age of the partners if any

- 1) .....
- 2) .....

## 5. If a Contractor's Licence has been previously granted, give details thereof

## 6. Previous experience with Licenced Electrical Contractors, if any

## 7. Details of permit, if any, held by the applicant and/or of partners

## 8. Details of permit holder on the strength of whose permit the Contractor's Licence is applied for

## 9. Fees paid in to the Govt. Treasury under Major Head XIII. Other Taxes and Duties — Minor Head (B) Electricity Duties — Other Receipts.

Chalan No. ....

Dated ... For

Rs. 100.00

(To be forwarded with the application)

\*Note: — The applicants shall produce evidence of solvency and capability to undertake wiring works to the Secretary, Licensing Board.

I/We ... do hereby declare that the particulars stated above are correct to the best of my/our knowledge and I/We fully understand the terms and conditions under which our Electrical Contractors Licence is granted, a breach of which will render the Licence liable for suspension or cancellation.

Dated ... 196 ...

Signature of

Proprietor and Partner if any

N. B. Any person who makes, procure to be made or assists in making representation for the purpose of obtaining for himself or any other person one Electrical Contractor's Licence, shall render himself liable for prosecution.

The Applicant for Contractor's Licence should be conversant with all the rules and conditions prescribed by the Govt. of Goa, Daman and Diu published vide Notification No. ... dated ... for the grant of the same.

## ANNEXURE «B»

## Form «A»

## Government of Goa, Daman and Diu

## Licence to Electrical Contractors

(Authorised by Government Notification No. .... Dated )

Mr./Messrs ... is/are hereby authorized to carry out Electrical Installation work in the Territory of Goa, Daman and Diu subject to the conditions mentioned in the Rules issued by the Government of Goa, Daman and Diu under its notification No. .... Dated.

Panjim

Dated ... 19

Secretary  
Licensing Board

President  
Licensing Board

Issue Date of Renewal	Date of Expiry	Initials of Secretary Licensing Board

## CONDITIONS

- This licence must be renewed annually and must be returned as demanded by the Secretary, Licensing Board.
- This licence is valid for carrying out all types of Electrical Installation works.
- The holder of this licence shall send intimation to the Secretary in writing within the periods specified below as to every change of:
  - Address of the place of ... within two months of such change.
  - Proprietor or proprietors — In the case of a partnership concern within seven days of such change.
  - Agent or Manager — In the case of a limited concern within seven days of such change.
 and shall also send similar intimation as to the dissolution of partnership.

## Form «B»

## Application for an Electrical Contractor's Licence

(To be filled in English)

- Name in which an Electrical Contractor's Licence is applied for .....
- Business address ... ..
- Full name, home address and age of the proprietor .....

## ANNEXURE «C»

## Syllabus for Electrical Supervisors' Examination

The Examination will consist of:

- (1) The following three written papers, each of two hours duration, and each carrying 50 marks.

Paper (I) Compulsory: Electricity — Theory (Elementary knowledge).

Paper (II) Optional: Electricity utilisation to be taken up by the candidates desiring to qualify for domestic, industrial and other installations.

Paper (III) Optional: Mines installation to be taken up by the candidates desiring to qualify for electrical installations in mines.

- (2) An oral and practical test carrying 100 marks. To pass the examination, a candidate must secure 20 marks in each written paper and forty marks in the oral and practical test. No certificate shall be issued unless a candidate passes in Papers (I) & (II) or Papers (I) & (III).

Candidates who have passed in Papers (I) & (II) and desire to qualify for mines installations, shall be exempt from re-appearing in Paper (I).

## PAPER I

## Electricity — Theory (Elementary knowledge)

Principles of Electricity — Electric Pressure, Current and Resistance, Ohm's Law. Specific resistance. Laws of resistance and their application for calculating voltage drop. Series and Parallel Circuits. Practical units of voltage. Current, resistance, power and energy. Relation between electrical power unit (K.W.) and mechanical power unit (H.P.).

Electro-Magnetism — Production of E.M.F. and Flemings. Right and left hand rules. Magnetic, chemical and heating effects of electric current. Magnetic properties of material. Electro magnets and their applications.

**Material:** Conductors, non-conductors and insulators. Insulating materials and their relative mediums. Transformer oil. Effect of moisture and heat on insulation. Lubricants and their uses.

Different types of wires, cables, switches, circuit breakers, cut-outs etc. and their safe current carrying capacity. Use of tables and data sheets generally given in electrical hand books.

**Generation of Electricity:** Sources of natural energy, types of prime movers, methods of producing Electromotive force. Alternating current and direct current.

**A. C. Generators (Alternators) —** Essential Components and constructional features. Methods of voltage and frequency control. Conditions and methods of synchronising. Simple associated suitable board and its accessories.

**D. C. Generators: Essential Components and Constructional features,** shewt, series, and compound dynamos and their characteristics. Causes of sparking, interpoles, commutators, and their maintenance. Carbon brushes, their adjustment and care. Methods of voltage regulation. Conditions for parallel operation, simple associated switch board and its accessories.

**Batteries: —** Primary cells. Dry cells, Storage or Secondary batteries or accumulators and their installation, head and cells. Nickels, iron or alkaline cells. Initial and subsequent charging of batteries, charging circuits and their calculation. Series and parallel circuits. Maintenance of batteries. Use of Hydro-Meters.

**A. C. Motors: —** Theory of Induction, (Squirrel cage and step ring type) Synchronous and commutated motors, their cases, installation methods of starting and speed control and reversal of direction.

**D. C. Motors: —** Theory of Series, Shunt and compound Wesel type Motors, their uses, installation, methods of starting and speed control and reversal of direction.

**A. C. Circuits: —** Knowledge of Vectors. Phase and phase difference. Resistance, inductance and capacitance in an A. C. Circuit. Periodicity or frequency. Power and power factor. Single phase and three phase system. Star and Delta connections. Phase sequence.

**Controlling and Regulating Gear: —** Knowledge of various types of switches and circuit breakers and cut-outs, starters, regulators, protective devices for both A. C. and D. C. Motors and their wiring with the Motors.

**Transformation. —** Knowledge of single phase and three phase transformers, their construction, use and maintenance. Phasing cut. Parallel working. Auto-transformers. Transformer tappings, temperature rise. Instrument Transformers.

**Conversion: —** Principles of operation of motor generator sets, rotary convertors, and mercury arc rectifiers.

#### Transmission and Distribution

(a) **Overhead lines: —** Simple calculations and general principles of construction of low, medium and high pressure lines, size of conductors, length of spans, sags, strength of poles, spacing of conductors, cross arms, effects of temperature, wind pressure, ice and snow, tension on wire. Insulators brackets, stays, struts, guard wires and other protective devices. Earthing, lightning arrestors and lightning conductors and their testing. Testing and fault location, use and jointing of different types of aluminium conductors and cables. Precautions to be taken for handling, laying and stringing of aluminium conductors & cables.

(b) **Underground Cables: Simple calculations and general principles of laying and jointing aluminium & other electrical. Cables, direct in ground, in troughs and pipes, handling, bending, jointing, plumbing, underground and surface junction boxes. Distribution board and pillars. Joint box compound, melting of compounds and filling boxes with compounds, testing and fault location.**

**Illumination: Metal filament lamps, fluorescent lamp circuits. High voltage luminous tube sign installations, photometric units and simple measurements. General requirements of efficient lighting and its elementary calculations.**

**Street lighting. Time switches.**

**Safety Rules — Working knowledge of —**

- (i) The Indian Electricity Rules, 1956
- (ii) Wiring Rules.

**Protection and Restoration of Persons suffering from Electric Shock.**

#### PAPER II

##### Electricity—Utilisation (Domestic Installations)

**Wiring —** wiring lay-outs of different types such as cleat, metal sheathed, wood casing and capping. Cab tyre sheathed, conduit and unwired cable for lightning and power installations in residential prewires together with the necessary switch-gear. Estimate of materials and cost of different types of installations, wiring of temporary installations and portable appliances.

**Circuit Diagram —** Electrical connections of various circuits for —

- (i) house wiring including those for main and sub-distribution boards, switches and cut-outs, etc. together with the load statement for each circuit, and
- (II) lifts with their safety devices.

**Apparatus: —** Installation and maintenance of heaters, coolers, refrigerators, and other domestic appliances, electric bulbs and indicators, small motors, for pumps and electric lifts.

**Energy measurements and charges: Energy meters both D. C. and A. C. for house service. Simple calculation relating to cost of energy. Elementary knowledge of methods of charging for energy.**

**Testing and fault attendance: Detection and location of faults in domestic appliances and wiring installations. Insulation and continuity tests.**

**Rectification of faults. Tests for insulation resistance to earth. Earth testing.**

**Protection devices —** Elementary knowledge of the use of fuses and cut-outs Earthing of domestic appliances, motors etc. Use of lightning arrestors.

##### Industrial Installations

**Wiring —** Wiring layouts of different types such as cleat, wood casing & capping metal sheathed, cab tyre sheathed, conduit and armoured cable for lightning and power installations in industrial prewires together with the necessary switch gear. Estimates of materials and cost of different types of installations. Wiring of temporary installations and portable appliances. Uses and jointing of aluminium cables & precautions to be taken for laying such cables.

**Circuit diagrams: Electrical connections for —**

- (i) D. C. and A. C. Generators, switch board, transformer, etc.
- (ii) Main and sub distributing board with circuit breakers, switch fuse units, with load statement for each circuit.
- (iii) D. C. and A. C. Motors, their starters, regulators.
- (iv) Battery charging equipment.
- (v) Generating Machinery & converting machinery.
- (vi) Lifts with their safety devices.

**Pump installations: General principles and elementary calculations of load power and energy requirements.**

**Apparatus: Installation and Maintenance of Generators, electric Motors, electric lifts, electric furnaces, electric welding plants, haulage and winding machines, colling and heating appliances.**

**Power and energy measurements and charges: Measurement of powers, Watt-Meters, Energy Meter both D. C. and A. C., Power Factor Connections by Capacities, simple Calculations relating to Cost of power and energy. Elementary knowledge of methods of charging for demand and energy.**

**Testing and fault attendance —** Detection and location of faults in D. C. and A. C. Generators, Motors, overhead distribution lines and underground cables, electric instruments, and apparatus and wiring installation; Rectification of faults Insulation and continuity tests. Tests for insulation resistance to earth. Earth Testing.

**Protective devices: Elementary knowledge of earthing of Generators, Motors, Machines, installations and appliances. Use of lightning arrestors, fuses, including higher rupturing capacity fuses, cut-outs, circuit breakers. Overload and no-volt protection, thermal trips. Field breaking switches and overspeed protection.**

#### PAPER III

##### Mines Installations

**Wiring: —** Wiring layouts of different types such as cleats, lead covered, cab tyre sheathed, conduit for lighting purposes



and armoured cables for power installations. Different types of trailing cables and their use. Uses and jointing of aluminium cables & precautions to be taken for laying such cables.

Circuit Diagrams: Electrical connections for.

- D. C. and A. C. Generators.
- Distribution boards with circuit breakers, switch fuse units and gate and switches.
- D. C. and A. C. Motors, their starters and regulators.

Apparatus. — (i) Installation and maintenance of —

- Electrical, winders, haulages and pump units, their control gears and starters.
- Rectifier, rotary convertors, and electric locomotives.
- Portable and transportable machineries — cool cutting machines, loaders, conveyors, gate-end switches, drill panels, with drills units and their control systems.

(ii) General principles and elementary calculations of load, power and energy consumption in pumping, hauling and winding installations and other working surface machineries.

Power and Energy Measurement and Charges: Measurement of power, wattmeters, energy meters, both D. C. and A. C. power factor connection by capacitors. Simple calculations relating to cost of power and energy.

Testing and fault attendance — Detection and location of earth or other faults in electrical apparatus and cables. Insulation and continuity tests. Rectification of faults. Test for insulating resistance to earth.

Testing of leakage protective device. Earth testing.

Protective Devices: Elementary knowledge of earthing of meter frames and machineries. Use of fuses, Overload, no-volt and earth leakage protection of circuit breakers.

Safety Rules — Working knowledge of — The Indian Electricity Rules, 1956, with particular reference to Chapter X.

Note: Candidates desiring to qualify only for electrical installations in Mines need not appear for compulsory section under Part II, but however, Part I is compulsory for such candidates also.

#### Oral and practical test

An oral and practical test on the syllabus for written papers will be held in addition to the following:

- Other law and its application
- Measurement of power in A. C. and D. C. Circuits
- Verification of laws of series and parallel circuits.
- Voltage and current relationship for a series-parallel circuit.
- Resistors and use of wheatstone bridge.
- Calibration of Ammeter and Voltmeter
- Use of Meggers
- Relationship between current, number of turns.
- Measurement of illumination and use of photo-meters.
- Different types of indicating and recording instruments frequency meters and thermo-couples and Pyrometers
- D. C. and A. C. energy meters
- A. C. and D. C. Generators and Motors
- Transformers.

#### ANNEXURE «D»

##### Syllabus for Wiremen's examination

The Examination will consist of practical test (3 hours) carrying 100 marks and oral test carrying 50 marks.

To pass the Examination the candidates must secure at least 50 marks in practical, 15 marks in oral and an aggregate of 75 marks in the examination.

Electric Pressure (volts).

Electric Current (amperes).

Power (watts).

Energy (watt-hours).

Ohm's Law.

Difference between A. C. and D. C. supply.

Conductors and insulators.

Use of standard wire gauge.

Connections of voltmeters and ammeters.

Reading of Energy meters.

Simple calculation of power and energy.

Testing the supply for OFF and ON, AC and DC

Positive and Negative. Live and dead conductors.

Various uses of the test lamp and bell.

Connections and diagrams for distributions and fuse boards.

Cut-outs, ceiling roses, lamp holders, switches (including two way and intermediate).

Wiring on cleats, in wood casing and cupping, metal sheathed, T. R. S., cab tyre sheathed, conduit.

Wiring of fittings of small Motors and other domestic appliances.

The installation of Electric bells and indicators.

Connections of AC and DC fans and regulators. Common faults in them and their remedies.

Methods of carrying (overhead base) lead covered and cab tyre sheathed wire over short distances.

Knowledge of danger points in simple lighting and power installations.

Testing for faults. Measuring insulation resistance to earth by Meggar.

Making straight and Tee joints in stranded insulated wires.

Making Britannia and Western Union joints in bare copper wires.

Soldering lugs on wires and cables.

#### APPENDIX

##### FORM «C»

Government of Goa, Daman and Diu

Application for Renewal of an Electrical Contractor's Licence

To,

The Secretary

Licensing Board, Panjim.

- Name in which the renewal of an Electrical Contractor's licence is applied for .....
- Business address .....
- Details of Licence held
  - Number .....
  - Date of Expiry .....
- The residential address of the Proprietor .....
- Details of Permit, If any, held by the applicant and/or Partner .....
- (a) Details of the Permit holder on the strength of whose permit the renewal of the Contractor's licence is applied for .....
- (b) Details for not having appointed a Supervisor should be given. (Applicant not technically qualified should quote the later. If any, exempting him for employing a qualified Electrical Supervisor) .....
- Has the applicant appointed Wiremen?
 

If appointed—

  - Names of Wiremen with their qualifications and practical experience .....
  - Their Permit nos. ....
  - Date of Expiry .....
- Whether the applicant has paid the licence Renewal fee of Rs. 25/- for the year into the Govt. Treasury under Major Head XIII Other Taxes and Duties — Minor Head «B» Electricity Duties — Other Receipts .....

Chalan No. ...  
Dated ...  
(To be forwarded with the application)

9. Has the applicant maintained the following Register upto date?

- (a) Application Register .....  
(b) Staff Register .....

10. (a) Does the applicant possess a Meggar in good working order? .....  
(b) Voltmeter .....  
(c) An Ammeter .....  
(d) A Wire gauge .....

"We hereby declare that that the particulars stated above are correct to the best of my/our knowledge and that I/we fully understand the terms and conditions under which an Electrical Contractor's Licence is renewed, a breach of which will render the Licence liable for suspension or cancellation.

Dated ... 19

Signature of  
Applicant/Applicants

N. B. Any person who makes, procures to be made, or assists in making representation for the purpose of obtaining for himself or any other person an Electrical Contractor's Licence shall render himself liable for prosecution.

The applicant should be conversant with all the Rules and Conditions prescribed by the Govt. of Goa, Daman & Diu vide its Notification No. ... dated ...

#### FORM «D»

#### Government of Goa, Daman and Diu

Application for admission to Examination for Electrical Supervisor  
Supervisors (Mining), Wiremen

(To be filled either in English, Portuguese, or Konkani)

Full Name of the Applicant .....  
Date of Birth and Age .....  
Details of Technical Qualifications .....  
Details of Past and Present service  
(Dates of Commencement and termination of each appointment to be given).  
Testimonials, (original and copies thereof to be submitted).

Fees paid into the Govt. Treasury under Major Head "XIII Other Taxes and Duties — Minor Head "B" — Electricity Duties — Other Receipts" .....  
Chalan No. ....  
and date ...  
for Rs. ...  
(to be forwarded along with the application)

- (i) Examination fee for Supervisors and for Supervisors (Mining) Rs. 30.00.  
(ii) Examination fee for Wiremen Rs. 10.00.

Language in which the Candidate desires to be examined .....

\*Candidates can be examined in English, Portuguese and Konkani languages.

\*\*Place where the Candidate desires to be examined .....

I hereby declare that the particulars stated above are correct and true to the best of my knowledge.

Dated ... 19

Signed in my Presence  
Signature .....  
Designation .....

Signature  
(Address to be stated clearly)

\*Cross out the language in which it is not intended to give Examination.

\*\*The Place of Examination will be notified by the Secretary from time to time in the local press.

Note: Testimonials copies attested by a Gazetted officer should be submitted with the application.

The Application should be signed in the presence of the employee, and Hon. Magistrate or a Govt. Gazetted Official.

Two copies of the latest photograph of the applicant (size 2" x 2 1/2") should accompany the application with name and signature on the back.

Any person making false statements for the purpose of admission to the Examination shall render himself liable for prosecution. Incomplete application will be rejected.

#### FORM «E»

#### Government of Goa, Daman and Diu

#### Certificate of Competency

(Authorised by Govt. Notification No. ... dated ...)

Shri ... having satisfied the Licensing Board by passing the prescribed examination for Supervisors, Supervisors (Mining) held in ... on ... is hereby granted this certificate of competency.

Panjim — Goa.

Dated ... 19

Secretary  
Licensing Board

President  
Licensing Board

(Note: The Permit issued along with this Certificate should be got renewed every year by the holder).

#### FORM «F»

#### Government of Goa, Daman and Diu

#### Certificate of Competency

(Authorised by Govt. Notification No. ... dated ...)

Shri ... having satisfied the Licensing Board that his qualifications entitle him for exemption from taking the prescribed examination for Supervisors/Supervisors (Mining) is hereby granted this Certificate of Competency.

Panjim — Goa.

Dated ... 19

Secretary  
Licensing Board

President  
Licensing Board

(Note: The Permit issued along with this Certificate should be got renewed every year by the holder).

#### FORM «G»

(Permit in book form)

Outside of Cover: Govt. Monogram Govt. of Goa, Daman & Diu

Permit for supervisors/supervisors (Mining)

Inside of Cover: Photograph.

First page: Govt. of Goa, Daman & Diu

Authorised by Govt. Notification No. ... dated ...

Date of issue ...

Name ...

Date of examination ...

Place of examination ...

No. and date of certificate of competency ...

Second page: This Permit allows the holder to supervise and carry out Electrical Installation work subject to the Conditions mentioned in the Rules issued by the Govt. under the above Notification but does not allow him to undertake Electrical Contractor's work when he holds a Contractor's Licence. This Permit is to be carried on the Holder's person and is not transferable. This Permit should be got renewed every year and must be returned to the Secretary, Licensing Board as desired.

Secretary  
Licensing Board

President  
Licensing Board

Third page: Remarks.

Fourth page — do —

## FORM «H»

Permit in book form

Outside of Cover: Monogram of Govt.  
Govt. of Goa, Daman and Diu

Permit for Wiremen

Inside of Cover: Photograph

First page: Permit for Wiremen

(Authorised by Govt. Notification No. ... Dated ...)

Date of issue ...

Name ...

Date of examination ...

Place of examination ...

Second page:

This permit allows the holder to carry out wiring work only, subject to the conditions mentioned in the Rules issued by the Govt. of Goa, Daman and Diu, under its Notification No. ... dated ... but does not allow him to undertake supervising or contracting work.

This Permit is to be carried on the holder's person and is not transferable.

This permit should be got renewed every year and must be returned to Secretary, Licensing Board as deemed.

Secretary  
Licensing BoardPresident  
Licensing Board

Third page: Remarks

Fourth page: Remarks.

## FORM «J»

Government of Goa, Daman and Diu

Register of Supervisors, Wiremen and Apprentices

(Authorised by Govt. Notification No. ... Dated ...)

Sr. No.	Names of employees	Wiring Staff			Date of		Remarks
		Supervisors Permit No.	Wireman Permit No.	Apprentices	Employment	Discharge	

## FORM «K»

Certificate to be granted by present or past employer to a candidate for Electrical Supervisor's or Wireman's Examination

1. Name and address
2. Designation
3. Date of admission
4. Nature of work
5. Date of leaving
6. Attendance as per staff register
7. Conduct
8. Remarks.

Place .....

Date ... 19...

Signature of Employer or licensed electrical contractor (with seal)

## FORM «L»

Information to be furnished by an existing Licensed Electrical Contractor before admission to Electrical Supervisor's Examination

1. Name .....
2. For how many years he is a licensed electrical contractor .....
3. Is he a current licensed electrical contractor? If so, give license No. ....
4. Give particulars, if any, of big wiring jobs done by him (such as factories, cinemas etc.) give names and addresses of their management .....
5. Total No. of installations actually wired and serviced by him.

- |                            |             |
|----------------------------|-------------|
| (i) Lighting .....         | (i) .....   |
| (ii) Heating .....         | (ii) .....  |
| (iii) Irrigation pumps ... | (iii) ..... |
| (iv) Power .....           | (iv) .....  |

6. Name of his present electrical supervisor and his technical qualification .....

Place .....

Dated ... 19...

Signature of the applicant

## FORM «M»

Application for renewal of Electrical Supervisor's/Wireman's permit

1. Name of applicant .....
2. Address: (i) Residential .....
- (ii) Occupational .....
3. Name and address of Licensed Electrical Contractors under whom he was working .....
4. Names and addresses of Licensed Electrical Contractor under whom he was working during past 3 years .....
5. No. and date of permit issued to him .....
6. Has the Govt. Treasury Chalan for the renewal fee been enclosed .....

Place ...

Dated ... 196...

Signature of the Applicant

## FORM «N»

Government of Goa, Daman and Diu

Register of Supervisors, Wiremen and Apprentices

(Authorised by Govt. Notification ... Department No. Dated )

Sr. No.	Name of employee	Wiring Staff			Non-certificated wiremen and apprentices
		Supervisor's Permit No.	Wiremen's Permit No.		
1	2	3	4	5	
Date of					
Employment	Discharge	Remarks			
6	7	8			